

## (12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

10/506712

(19) World Intellectual Property Organization  
International Bureau(43) International Publication Date  
18 September 2003 (18.09.2003)

PCT

(10) International Publication Number  
WO 03/076342 A1(51) International Patent Classification<sup>7</sup>: C02F 1/00

HP15 6BW (GB). BRYANT, Steven, John [GB/GB]; 22 Hillview, Saunderton, High Wycombe, Bucks HP14 4HY (GB).

(21) International Application Number: PCT/GB03/00975

(74) Agent: MURGITROYD &amp; COMPANY; Scotland House, 165-169 Scotland Street, Glasgow G5 8PL (GB).

(22) International Filing Date: 7 March 2003 (07.03.2003)

(81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(25) Filing Language: English

(84) Designated States (regional): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

(26) Publication Language: English

[Continued on next page]

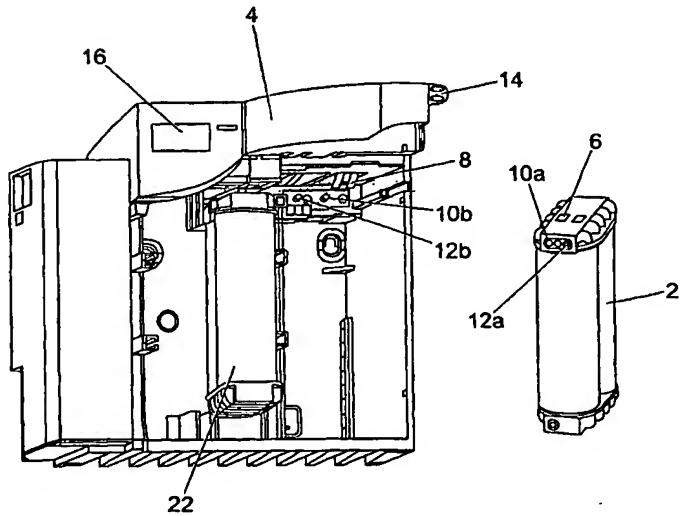
(30) Priority Data:  
0205492.2 8 March 2002 (08.03.2002) GB

(71) Applicant (for all designated States except US): OTV SA [FR/FR]; L'Aquarene, 1 place Montgolfier, ST Maurice, Cedex 94417 (FR).

(72) Inventors; and

(75) Inventors/Applicants (for US only): UNDERWOOD, Lee [GB/GB]; 95 Marys Mead, Hazlemere, High Wycombe HP15 7DT (GB). WILSON, Mark, Graeme [GB/GB]; 47 Oak Tree Road, Marlow, Bucks SL7 3ED (GB). FLESIG, Jonathan, Charles [GB/GB]; 38 Honysuckle Road, Widmer End, High Wycombe, Bucks

(54) Title: WATER FILTER AND TREATMENT SYSTEM AND COMPONENT



(57) **Abstract:** A water treatment system comprising a separable water treatment component (2) and a host water treatment apparatus (4) is described. The component (2) is useable in the host apparatus, and has an electronic circuit which is adapted to co-operate with an electronic circuit in the host apparatus. In typical operation, the electronic circuit of the component includes at least a data tag (6), and the presence of the data tag is identified by the electronic circuit of the host apparatus upon correct fitment and/or installation of the component, which creates a two-way communication protocol. The host apparatus can then upload relevant data from the data tag, etc. and the component's circuit can download the relevant information from the host apparatus. The present invention provides the benefits of electrical co-operation and data tagging.



**Declaration under Rule 4.17:**

— *of inventorship (Rule 4.17(iv)) for US only*

**Published:**

— *with international search report*

*For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.*